

Date: Wed, 16 Jun 93 07:59:55 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #735
To: Info-Hams

Info-Hams Digest Wed, 16 Jun 93 Volume 93 : Issue 735

Today's Topics:

 6m DX window
 AC adapter for Alinco DJ-580
 AM Broadcast Radio Antenna
 Antennas For mounting off
 Anyone operate 10MFM last weekend?
Apollo & hams (was Re: "If you believe they put a man on the moon")
 Daily Solar Geophysical Data Broadcast for 15 June
 Entry Level HF Rigs
 Ground Plane always on bottom?
 Ham radio in TV shows
 INFO WANTED
 Mid-Atlantic 6MTR E-Skip Rpt for 6/15/93
 WWV on telephone (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 16 Jun 93 13:43:54 GMT
From: news-mail-gateway@ucsd.edu
Subject: 6m DX window
To: info-hams@ucsd.edu

glen@plato.ds.boeing.com (Glen Kristensen) writes:

>I managed to get myself volunteered to run the VHF/UHF station during
>field day. I am in need of information on what frequencies I should use.
>The following equipment is available to me:

> 6m All Mode
> 2m All Mode
> 220 FM
> 440 FM (All Mode when no satellite around)

to which Todd N9MWB says

>On 6 meters, try 50.100 up to 50.200, but pay most attention to the
>area around 50.125 - 50.150. It will be all USB/CW.

Please remember that the Intercontinental DX window is from 50.100 to 50.125. I'm not a terribly active 6m op, but I understand that it is considered tacky, poor taste, etc. to sit in that window calling CQ, especially during a USA contest. I would recommend 50.125 as a low boundary then go up as high as is practically needed, probably not much more than 50.250 or if things are really busy, 50.300 or so... (Let's hope the openings are so good that we need to go up as high as 50.300!!)

Scott W01G

=====

Scott Sminkey
Software Sustaining Engineering
Xyplex, Inc.
295 Foster St.
Littleton, MA 01460
voice: 508 952-4792
fax: 508 952-4702
email: sasminkey@eng.xyplex.com
(Opinions, comments, etc. are mine, not Xyplex's...)

Date: Tue, 15 Jun 1993 17:20:12 GMT
From: portal!lhaven.UUmh.Ab.Ca!combdyn!lawrence@uunet.uu.net
Subject: AC adapter for Alinco DJ-580
To: info-hams@ucsd.edu

In article <1993Jun14.185440.8283@rsg1.er.usgs.gov> tbodoh@resdgs1.er.usgs.gov
(Tom Bodoh) writes:

>

>--

>My Alinco DJ-580 came with a dandy (although slow) drop-in charger and I
>know that two mobile power cords are available in addition to the rapid
>charger - but there doesn't seem to be any AC adapter available. Can
>anyone comment on ones that they've found that allow full output power? Do
>I need 13.8V or will 12V work? Radio Shaft has a 12VDC 1 AMP that looks
>like it might do it - will it? I do have a 5 Amp regulated 13.8 VDC supply,

>but at 6-7 lbs it's not too portable ;-) Thanks...

>

I use got one of those 12VDC 1Amp supplies from Radio Shlock, it doesn't seem to complain about my FT530 which wants 1.5Amps at full power...for short transmissions. However, nobody can hear me over the 60Hz hum that I get from using the supply. But, I can work packet at 0.5Watts and the 60Hz hum is low enough that it doesn't interfere. So, I get by with that.

I have the Radio Shlock 3Amp supply when I want to more power, too bad mine got dropped a while back and it shorts out if I look at it the wrong way.

If you slip a capacitor inline on the 1Amp supply, it'll probably work. I've been thinking about giving this a try sometime. But, the 10' lighter extension cord that I'm using in the living room gives me enough walk around room. And, the when I'm doing packet I have the copper cactus hooked up, etc.

>+++++
>+ Tom Bodoh - Sr. systems software engineer, tech license in the mail
+
>+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
>+ Internet; bodoh@dggs.cr.usgs.gov (152.61.192.66)
+
>+ "Welcome back my friends to the show that never ends!" EL&P
+
>+++++

--

--EMAIL-----PHONE-----FAX-----
| WORK: lawrence@combdyn.com | (403)529-2162 | (403)529-2516 | CallSign
| HOME: dreamer@lhaven.uumh.ab.ca | (403)526-6019 | (403)529-5102 | VE6LKC

disclamer = (working_for && !representing) + (Combustion Dynamics Ltd.);

Date: Wed, 16 Jun 1993 10:10:51 GMT
From: elroy.jpl.nasa.gov!sdd.hp.com!apollo.hp.com!hpwin052!hpqmoea!
dstock@ames.arpa
Subject: AM Broadcast Radio Antenna
To: info-hams@ucsd.edu

Yes, I'd go for a bigger than a car antenna, wire, say a few tens of feet, a length of ordinary 50 ohm RG58 with a terminating resistor at the end connected directly to the car radio.

I was just worried that someone might stick up a car antenna and extend its cable with RG58 equiv. a long way to the radio and then find

the result rather disappointing, blaming you. I assumed it was just an oversight not adding a note of caution, you don't often miss this sort of trick. Car radios are quite excellent, and it is easy to do better than a car antenna at home.

Have you got RDS-EON going anywhere in the US yet ? I've had it working in my Range-Rover for the past year using a double front-ended rx that seamlessly changes freq to follow a chosen network as I drive around Britain, it will also identify emergency or traffic announcements and interrupt other stations, tape or silence, whichever is selected at the time. One less well known thing is that the transmitters also have programme type data fields eg "Rock" "Classical" "Sport" "News" etc etc and I can set it to scan by type.

It may be that the nature of the organisation of US broadcasting makes this a European curiosity.

Cheers

David

Date: Tue, 15 Jun 1993 12:26:15 -0600
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!darwin.sura.net!
news-feed-1.peachnet.edu!umn.edu!uum1!kksys.com!edgar!tdkt!
FredGate@network.UCSD.EDU
Subject: Antennas For mounting off
To: info-hams@ucsd.edu

Steve,

Sorry, to send this public to all but that is my ownly option on the BBS. Hope this gets to you!

I'm not sure if you are looking for an antenna to use with your balloon package or if you are using the balloon to test antennas. I will assume the former.

It would be my suggestion to use an "upside down" quarter wave antenna with the radials pointing at 45 degrees into space. This would give you probably the best radiation pattern for your purpose. The pattern should be approximately hemispherical toward the earth with good coverage to the horizon as well as directly below. The J-pole and vertical dipole would not be as good directly below. As for the balun, the quarter wave antenna will nicely match the 50 ohm coax and the balun would not be required.

I would be interested in further details. Please reply via below. You can netmail me, incoming get thru.

Hope this helps,

73 de Claton Cadmus, KA0GKC

Packet: KA0GKC @ WB0GDB.#STP.MN.USA.NA

Fido: Claton Cadmus 1:282./100

Internet: Claton.Cadmus@f100.n282.z1.tdkt.kksys.com

* SLMR 2.1a * If messy shacks were worth money, I'd be a millionaire!

* Origin: HAM>link< RBBS 612/HAM-0000 Saint Paul, MN [K0TG] (1:282/100)

Date: Wed, 16 Jun 1993 12:54:02 GMT
From: das.wang.com!wang!dbushong@uunet.uu.net
Subject: Anyone operate 10MFM last weekend?
To: info-hams@ucsd.edu

Last weekend (particularly Sunday, 6/13) 10 meters FM opened up in the afternoon all up and down the east coast and into S. central US.

What was 10 like in other parts of the US/World?

Dave, KZ10

--

Dave Bushong, Wang Laboratories, Inc. Amateur Radio Callsign KZ10
Project Leader, Recognition products kz10@n0ary.#noca.ca.na
Internet: dbushong@wang.com

Date: Wed, 16 Jun 1993 10:16:26 GMT
From: pipex!uknet!sni.co.uk!lehane@uunet.uu.net
Subject: Apollo & hams (was Re: "If you believe they put a man on the moon")
To: info-hams@ucsd.edu

Bill Higgins-- Beam Jockey (higgins@fnalnl.fnal.gov) wrote:

: X-Date: 15 Jun 93 15:28:50 -0600

: X-Organization: Fermi National Accelerator Laboratory

: Lines: 37

: X-NNTP-Posting-Host: fnalnl.fnal.gov

: In article <JREDFORD.93Jun10185654@cockatrice.bbn.com>,
jredford@cockatrice.bbn.com (John Redford) writes:

: >

: > I was humming the song by REM that has the above line in it when I

: > fell to wondering just how one could prove they put a man on the moon.
: > Not that I doubt they did, but still, how could I, Joe Citizen, find
: > evidence of the Apollo landings?

: I think the best bet is to look for signals from the ALSEP
: transmitters left by astronauts at various landing sites. I know they
: were turned off in September 1977, but last time this came up on the
: Net (December 1992), we decided that radio amateurs with the right
: equipment could have detected them.

: So search through ham radio magazines between 1969 and 1977 to see if
: anybody *did* report DX'ing the Moon. It must have been a tempting
: target, and moonbounce hams probably at least attempted it.

They did, although I am unable to give the callsigns. My recollection is
that Pat Hawker G3VA reported this in Wireless World (a UK publication) in
the early to Mid 70's. It was almost certainly reported elsewhere.

[remainder deleted to save bandwidth]

73's

Lehane

--

Lehane Kellett. G8KMH. Siemens Nixdorf Information Systems, Bracknell.

lehane@sni.co.uk NTS: g8kmh@gb3xp amprnet: g8kmh@g8kmh.ampr.org

Standard disclaimers apply. Warranty void if opened.

Date: 16 Jun 93 13:39:14 GMT

From: news-mail-gateway@ucsd.edu

Subject: Daily Solar Geophysical Data Broadcast for 15 June

To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 166, 06/15/93

10.7 FLUX=082.0 90-AVG=116 SSN=011 BKI=2332 1111 BAI=007

BGND-XRAY=A5.1 FLU1=2.8E+05 FLU10=1.3E+04 PKI=3332 1222 PAI=009

BOU-DEV=015,038,022,011,006,006,006,006 DEV-AVG=013 NT SWF=00:000

XRAY-MAX= A8.1 @ 1255UT XRAY-MIN= A4.4 @ 1926UT XRAY-AVG= A5.9

NEUTN-MAX= +002% @ 1400UT NEUTN-MIN= -002% @ 1525UT NEUTN-AVG= +0.0%

PCA-MAX= +4.3DB @ 1525UT PCA-MIN= -0.4DB @ 1750UT PCA-AVG= +0.0DB

BOUTF-MAX=55372NT @ 1317UT BOUTF-MIN=55337NT @ 1929UT BOUTF-AVG=55357NT

GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+074,+000,+000

GOES6-MAX=P:+125NT@ 1532UT GOES6-MIN=N:-093NT@ 0229UT G6-AVG=+101,-018,-050

FLUXFCST=STD:080,085,085;SESC:080,085,085 BAI/PAI-FCST=010,010,005/010,010,010

KFCST=1234 3221 1234 3221 27DAY-AP=010,010 27DAY-KP=2233 2232 2243 2221

WARNINGS=

ALERTS=

!!END-DATA!!

NOTE: The Effective Sunspot Number for 14 JUN 93 was 55.0.
The Full Kp Indices for 14 JUN 93 are: 1o 3- 2o 5- 2o 2+ 2o 2o

Date: Tue, 15 Jun 1993 13:05:08 GMT
From: valinor.mythical.com!n5ial!jim@uunet.uu.net
Subject: Entry Level HF Rigs
To: info-hams@ucsd.edu

In article <mellerso-140693095922@memac.ucns.uga.edu>
mellerso@uga.cc.uga.edu (Mike Ellerson) writes:

>Has anyone had any experience with the [Entry Level] HF rigs like the :

>Kenwood TS 140S
>Yaseu FT747GX
>Icom 725 and 728

Well, I wouldn't call these ``entry level'' as such, unless you mean entry level in terms of expensive rigs.... To me, an entry level HF rig is most likely going to be tube based, such as an old Collins, Drake, Griefkit (even now, with a TS-140S here, I'd love to get my hands on an old HW-101), a Galaxy V Mk III (my old HF rig), and so on. Now *THESE* are entry level (prices range from free, or 25 cents like I paid for the Galaxy, to maybe as high as \$100 if someone has just done a total overhaul on it).

When I went to buy an HF rig, the store I bought it at was very heavily biased toward Icom (to the point that they didn't try to sell anything else...you had to ask, and then they tried to talk you out of it), so when I asked about cheap HF rigs, they pointed me to the Icom 725 (I think it was the 725). They said that was the only cheap one they had, and I bought it. It didn't work...seems that sometimes, when I'd key down, the rig would just shut down, and I had to kill power all the way from the power supply for about a minute before it would reset and come on again. Of course, it didn't do this all the time...that would be too easy. It would work for a while (just long enough to get into a QSO), and then die. Thermal? Could be, the Icom I'd had before that had severe thermal problems.

So, I took it back, and the store (reluctantly) replaced it. Got the new one home, and it had a whole section of the VFO that was dead.

So, I took it back, too, and this time, I noticed this nice little Kenwood sitting there. Now, I've always been a Kenwood person, and Kenwood rigs have never failed me, so I traded the Icom for a Kenwood TS-140S. No problems at all. It's a nice little performer, does a great job on AMTOR and PacTOR (without any apparent problems with the T/R switch), and so on.

If anything, I'd like to add some external filtering (notch, variable bandpass, a separate lo-pass and hi-pass, etc.). I've had the parts on hand to build the filter for months, but haven't done it yet. :-). With a little time, I should be able to get a pretty substantial amount of filtering, just like the more expensive rigs have (ok, not including the new DSP stuff), and it will have only cost me around \$40 (for the deluxe version).

On a side note: what would be the effects on AMTOR and PacTOR of the above filters? I'm mainly concerned about distorting the digital signal patterns to a point where the filtering is doing more harm than good. Any suggestions? Of course, PacTOR is so bulletproof that I probably won't ever need filtering there, but still....

>Also, how important is the FM mode which the FT747GX and
>Icom 725 and 728 omit?

You'll have to decide that one for yourself. All I can say is, I paid about the same price for the Kenwood, and I got FM mode. I haven't used it, but then, I prefer AMTOR/PacTOR over voice, any day.

>Is it worth paying extra for 6M on the Icom 729 and Kenwood TS690 ?

Again, you'll have to decide that.

Hope this helps.

--jim

--

#include <std_disclaimer.h>

73 DE N5IAL (/4)

INTERNET: jim@n5ial.mythical.com | j.graham@ieee.org ICBM: 30.23N 86.32W
AMATEUR RADIO: (packet station temporarily offline) AMTOR SELCAL: NIAL

E-mail me for information about KAMterm (host mode for Kantronics TNCs).

Date: Tue, 15 Jun 1993 21:34:48 GMT

From: elroy.jpl.nasa.gov!sdd.hp.com!col.hp.com!news.dtc.hp.com!hpscit.sc.hp.com!
hp!extra!hp!fcso!myers@ames.arpa

Subject: Ground Plane always on bottom?

To: info-hams@ucsd.edu

>Do the ground plane wires need or have to be lower than the 1/4 wave
>radiating element?

zip.eecs.umich.edu!destroyer!cs.ubc.ca!alberta!nebulus!ve6mgs!
usenet@network.UCSD.EDU
Subject: INFO WANTED
To: info-hams@ucsd.edu

Fellow DXer's,

The Ohio/Penn DX Cluster Group and myself would like to thank all of the DXer's world-wide for the great response to the OPDX Bulletin. Most of the bulletin's information is supplied by the Ohio/Penn Group. But now, with the continuing input from both foreign and stateside, the OPDX Bulletin will grow bigger and better as time goes on. With the technology of packet radio and the DX PacketCluster the information that is available can be very current.

If you would like to contribute DX information, (All contributors will receive credit), send it to:

Packet Mail - KB8NW @ WA8BXN.OH.USA.NA
InterNet Mail - aq474@cleveland.freenet.edu
BitNet Mail - aq474@cleveland.freenet.cunyvm
PRODIGY - DFJH48A
Online Mail - Basic Amateur Radio Frequency BBS (BARF-80)
216-237-8208 14400/9600/4800/2400/1200/300 8/N/1
Leave a message with the SysOp

NOW FAX YOUR DX INFORMATION! Faxing is available Monday/Wednesday/Friday from 0430 to 2330z only. The number is 216-237-8208 and operates Group 3 FAX Service Class 2 (EIA/TIA 592) only. Use only the dates and times specified. FAX Service Class 1 (EIA/TIA 578) is available upon request by leaving a message to the SysOp on BARF-80 BBS. The FAX card is sharing the same phone line as BARF-80 BBS using a data/fax/phone switch.

73's and Good DX de Tedd KB8NW @ WA8BXN.OH.USA.NA

Date: Wed, 16 Jun 1993 12:36:59 GMT
From: swrinde!cs.utexas.edu!math.ohio-state.edu!sol.ctr.columbia.edu!NewsWatcher!
user@network.UCSD.EDU
Subject: Mid-Atlantic 6MTR E-Skip Rpt for 6/15/93
To: info-hams@ucsd.edu

AM opening to Orlando Fla area to MD.Fla hearing VE3;W1s&W2s.
Evening opening to Ark;Mo; For short period at abt 7:41 local ESDT the E-skip shifted to EM66 (strong beacon only) this was short enough to look for 2 MTR E-SKIP, but no takers on 2 !! Beacons in were EM40 and EM45 and

EM27. Many beacons without activity. Contest bunouts??

The old info was on June 11th between 1813 and 1837Z the G;Dk;PA;S59UN; and SM7 stations were reported into East Coast USA from double hop E-Skip on ^ Meters. Also OX3Lx was in on 12th at 0240Z to W3 land. The above was also a report from W3 land, K1HTV. Also reported a w1 worked into Russia, UA1. No predictions as no input since last week of Coronal Holes Data from oler! Dick W1DGA

Date: Tue, 15 Jun 1993 00:53:20 GMT
From: elroy.jpl.nasa.gov!sdd.hp.com!col.hp.com!news.dtc.hp.com!hpscit.sc.hp.com!hpextra!hpfcs!hpfcmdd!hpfcmdd.fc.hp.com!hemstreet@ames.arpa
Subject: WWV on telephone
To: info-hams@ucsd.edu

In article <1vaet0\$jml@chnews.intel.com> jbromley@sedona.intel.com (Jim Bromley, W5GYJ) writes:

In article <93061111557.AA28624@tecnet1.jcte.jcs.mil>
jdelancy@tecnet1.jcte.jcs.mil writes:

>Someone in the recent past asked if time sources like WWV
>was available on a telephone dial-in basis.

Also, you can dial Ft. Collins directly (303)499-7111
^^^^^^^^^^^^^^
TOLL CALL..

FYI - I don't know where this number is not a toll call from but from Ft. Collins it is a toll call and I can see the antenna(s) from my home.
:-(

C. Hemstreet IV __o (303)229-4471
Hewlett Packard \<,
-----() / ()-----

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Date: Tue, 15 Jun 1993 21:30:33 GMT
From: elroy.jpl.nasa.gov!sdd.hp.com!col.hp.com!news.dtc.hp.com!hpscit.sc.hp.com!hpextra!hpfcs!myers@ames.arpa
Subject: WWV on telephone
To: info-hams@ucsd.edu

> Also, you can dial Ft. Collins directly (303)499-7111
> ^^^^^^^^^^^^^^
> TOLL CALL..
>
> FYI - I don't know where this number is not a toll call from but from Ft.
> Collins it is a toll call and I can see the antenna(s) from my home.
> :-(

This is a call to the NIST office in Boulder, CO - which is where the clocks really are. The WWV site in Ft. Collins has just the transmitters; there's a microwave link between the two. (And I've been told that the transmissions are corrected for the ~50 mile trip from NIST to WWV, such that listeners can assume the WWV site as "ground zero" when shooting for the ultimate degree of accuracy! May be an urban legend, but it sounds good....)

Bob Myers	KC0EW	Hewlett-Packard Co.		Opinions expressed here are not
		Systems Technology Div.		those of my employer or any other
myers@fc.hp.com		Fort Collins, Colorado		sentient life-form on this planet.

Date: 15 Jun 93 20:06:17 GMT
From: agate!howland.reston.ans.net!sol.ctr.columbia.edu!news.kei.com!ddsw1!indep1!
clifto@ames.arpa
To: info-hams@ucsd.edu

References <C7C1zw.32t@pacifier.rain.com>, <2321@indep1.UUCP>,
<1993Jun12.211429.22498@rtsg.mot.com>sw1
Subject : Re: BUY BACK 11 METERS! (was Re: Selling t

In article <1993Jun12.211429.22498@rtsg.mot.com> rundllpj@rtsg.mot.com (Patrick J. Rundall) writes:

>
>In article <2321@indep1.UUCP>, clifto@indep1.UUCP (Cliff Sharp) writes:
>|> In article <C7C1zw.32t@pacifier.rain.com> mikef@pacifier.rain.com (Mike
Freeman) writes:
>|> >Hell, let's just buy 'em all. While we're at it, we could buy
>|> >the portions of the spectrum we already are entitled to. that
>|> >way, we could guarantee their use by amateurs in perpetuity :-) :-) :-)!
>|>
>|> The way I figger it, that would cost about \$200,000,000, bidding against
>|> competitors like Motorola and their ilk. There's about 400,000 hams (to pick
>|> a round number, though a low one) right now. If we all chip in, might be
>|> doable.
>|> Send your \$500 to my callbook address and I'll start the fund. :-)
>|> | Cliff Sharp | clifto@indep1.chi.il.us OR clifto@indep1.uucp

|
>
>I'm sorry - I guess I missed where _Motorola_ bought spectrum hams were using.
>Perhaps Mr. Sharp in his infinite wisdom (the way he "figgers" it) could point
>us to some facts to accompany his sarcastic backstab of Motorola.

Now, now. I prefer to think of it as irony (though sarcasm means just about the same thing :-). And that wasn't meant as a stab at Motorola per se, I just didn't want to fill up an article with dozens of names.

It's been discussed to death in various places that, if selling frequencies becomes common, that companies like Motorola, Drake, Northrop, E. F. Johnson (am I dating myself with these names?), would easily be able to outbid a bunch of hams. If, for example, 222-225 MHz went on the block, I'm sure any number of cash-rich bidders would show up and so outrageously outbid any consortium of hams that the remaining piece of that band would be long gone very soon. If we managed to get together a million, it would take two seconds for, say, Northrop to show up with two (to use the area for telemetry, say), and another two secs for Motorola to show up with three (for PCS or something). There was a _rumor_ some time back that 220-222 MHz was looking pretty good to Motorola, in fact (RUMOR ALERT: I'm not at all sure how true that might be). We hams do have quite a bit of bandspace on allocation secondary to US Gov't use, and if the USG loses that there's a real good chance that we won't have secondary use there any more. And wasn't there recently a petition or NPRM about moving the 40M band to accommodate SW broadcasters (thus obsoleting literally millions of dollars worth of privately-owned equipment)?

I certainly wish you'd have taken the smilie for what it was meant to be and taken the whole thing with a grain of salt. My apologies if what I said was taken as an "ad corporationem" (???) attack, rather than the generic statement it was meant to be.

>Speaking purely as a concerned ham - not for Motorola or the industry.

Taken as such. Again, I couldn't even fault Motorola, OR the industry, for taking advantage of such a situation; bandspace is getting increasingly rare, and he who holds it owns a great deal. I just feel that we have to do whatever we need to do to try to keep corporate fingers (ALL of them) out of the ham bands.

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+-----+
|  Cliff Sharp  |      clifto@indep1.chi.il.us   OR  clifto@indep1.uucp   |
|    WA9PDM    |                        Use whichever one works          |
+-----+
```
